<u>Attachment 25</u> – 510(k) Summary for the Modified MSq Family of Lovely Light/Laser System Handpieces

I. General Information

Submitter:

MSq (M²) Ltd.

7 Haeshel Street, POB 3021

Caesarea Industrial Park 38900, Israel

Contact Person:

Anne C Worden

Regulatory Consultant

Summary Preparation Date:

July 21, 2004

II. Names

Device Names:

Modified MSq Family of Lovely Light/Laser System,

Delivery Devices and Accessories

Primary Classification Names:

Surgical Powered Laser Instrument and Ultraviolet

Dermatological Light

III. Predicate Devices

- MSq Family of Lovely Light/Laser Systems (K033946)
- Lumenis BClear Targeted PhotoClearing System (K021762)
- Innotech USA The FriendlyLight Nd:YAG Laser (K033251)
- Cutera Family of CoolGlide Lasers (K023954)
- Palomar Clear Light[™] Nd:YAG Laser System (K003460)
- Candela GentleYAG Family of Laser Systems (K033172)
- Coherent Medical VersaPulse Aesthetic Surgical Lasers (K972347)
- Hoya-ConBio Medlite C6 / C3 Q-Switched Nd:YAG Lasers (K014234)
- Hoya-ConBio Medlite Q-Switched Laser (K022709)
- Sciton Profile 1320 Laser System (K032459)
- New Star Lasers CoolTouch 3, CT3, and II Lasers (K031184, K031954, and K030453)
- New Star Lasers CoolTouch II and CT3 Nd:YAG Lasers (K040131)
- Cynosure TriStar Aesthetic Workstation (K033176)
- Laserscope Venus I, EL and Vela Er:YAG lasers (K974896, K971843 and Other Laserscope Er:YAG Laser Clearances)
- Innotech USA FriendlyLight Er:YAG Pulsed Laser (K000023)
- Sciton Profile-S and 3000 Er:YAG Laser Systems (K040005 & K010285)

IV. Product Description

The modified MSq Family of Lovely Light/Laser System and Delivery Devices and Accessories are comprised of the following main components:

- A system console that includes the control display, software and control electronics, keyswitch, emergency stop, cooling system, optics bench;
- Footswitch:
- Variety of handpieces and attachment accessories.

V. Indications for Use

The modified MSq Family of Lovely Light/Laser System and Delivery Devices and Accessories are indicated for a variety of aesthetic and surgical applications in the medical specialties of general and plastic surgery and dermatology, endoscopic/ laparoscopic general surgery, gastroenterology, gynecology, otorhinolaryngology (ENT), neurosurgery, oculoplastics, orthopedics, pulmonary/thoracic surgery and urology.

VI. Rationale for Substantial Equivalence

The modified MSq Family of Lovely Light/Laser System and Delivery Devices and Accessories share the same or similar indications for use, device operation, overall technical and functional capabilities, and therefore are substantially equivalent for use in general and plastic surgery and dermatology, endoscopic/ laparoscopic general surgery, gastroenterology, gynecology, otorhinolaryngology (ENT), neurosurgery, oculoplastics, orthopedics, pulmonary/thoracic surgery and urology for surgical and aesthetic applications to the predicate MSq Family of Lovely Light/Laser Systems (K033946), as well as to the Lumenis BClear Targeted PhotoClearing System (K021762), Innotech The FriendlyLight Nd:YAG Laser (K033251), the Cutera Family of CoolGlide Lasers (K023954), the Palomar Clear Light™ Nd:YAG Laser System (K003460), the Candela GentleYAG Family of Laser Systems (K033172), the Coherent Medical VersaPulse Aesthetic Surgical Lasers (K972347), the Hoya-ConBio Medlite C6 / C3 Q-Switched Nd:YAG Lasers (K014234), the Hoya-ConBio Medlite Q-Switched Laser (K022709), the Sciton Profile 1320 Laser System (K032459), the New Star Lasers CoolTouch 3, CT3, and II Lasers (K031184, K031954, and K030453), the New Star Lasers CoolTouch II and CT3 Nd:YAG Lasers (K040131), the Cynosure TriStar Aesthetic Workstation (K033176), the predicate Venus I, EL and Vela Er:YAG lasers manufactured by Laserscope (K974896, K971843 and other Laserscope Er:YAG laser clearances), the predicate FriendlyLight Er: YAG Pulsed Laser manufactured by Innotech USA (K000023), and the predicate Sciton Profile-S and 3000 Er:YAG Laser Systems (K040005 & K010285).

VII. Safety and Effectiveness Information

The review of the indications for use and technical characteristics provided to demonstrate that the modified MSq Family of Lovely Light/Laser System and Delivery Devices and Accessories are substantially equivalent to the predicate devices.

VIII. Conclusion

The modified MSq Family of Lovely Light/Laser System and Delivery Devices and Accessories was found to be substantially equivalent to the predicate MSq Family of Lovely Light/Laser Systems (K033946), as well as to the Lumenis BClear Targeted PhotoClearing System (K021762), Innotech The FriendlyLight Nd:YAG Laser

(K033251), the Cutera Family of CoolGlide Lasers (K023954), the Palomar Clear Light™ Nd:YAG Laser System (K003460), the Candela GentleYAG Family of Laser Systems (K033172), the Coherent Medical VersaPulse Aesthetic Surgical Lasers (K972347), the Hoya-ConBio Medlite C6 / C3 Q-Switched Nd:YAG Lasers (K014234), the Hoya-ConBio Medlite Q-Switched Laser (K022709), the Sciton Profile 1320 Laser System (K032459), the New Star Lasers CoolTouch 3, CT3, and II Lasers (K031184, K031954, and K030453), the New Star Lasers CoolTouch II and CT3 Nd:YAG Lasers (K040131), the Cynosure TriStar Aesthetic Workstation (K033176), the predicate Venus I, EL and Vela Er:YAG lasers manufactured by Laserscope (K974896, K971843 and other Laserscope Er:YAG laser clearances), the predicate FriendlyLight Er:YAG Pulsed Laser manufactured by Innotech USA (K000023), and the predicate Sciton Profile-S and 3000 Er:YAG Laser Systems (K040005 & K010285).

The modified MSq Family of Lovely Light/Laser System and Delivery Devices and Accessories shares identical indications for use, and similar design features, and functional features, and thus are substantially equivalent to the predicate devices.



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

DEC 21 2004

MSq (M²)Ltd. c/o Ms. Anne C. Worden Regulatory Consultant 3637 Bernal Avenue Pleasanton, California 94566

Re: K042000

Trade/Device Name: Modified MSq Family of Lovely Light/Laser Systems,

Delivery Devices and Accessories

Regulation Number: 21 CFR 878.4810

Regulation Name: Laser surgical instrument for use in general and

plastic surgery and in dermatology

Regulatory Class: II Product Code: GEX

Dated: September 23, 2004 Received: September 24, 2004

Dear Ms. Worden:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0115. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/dsma/dsmamain.html

Sincerely yours,

Turiam C. Provost For Celia M. Witten, Ph.D., M.D.

Director

Division of General, Restorative and Neurological Devices Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

510(k) Number	(if known): _	K042000	
Device Name:	Modified MSo	g Family of Lovely Systend Lovely III (TBD)	em Models: Lovely I (Aria), Lovely II
Indications for	Use:		
surgical appli photothermolys dermatology, gastroenterolog surgery, ophtha	ications requing the second se	ring the ablation, lation or coagulation) o plastic surgery, endo , otorhinolaryngology (ntended for use in aesthetic, cosmetic, and vaporization, excision, incision, and f soft tissue in the medical specialties of oscopic/ laparoscopic general surgery, (ENT), neurosurgery, oculoplastics, oral opedics, pulmonary/thoracic surgery, and ws:
DERMATOLOG	Y AND PLASTIC	C SURGERY	
The Advance The The hyp The The hen ang mal	ced Fluorescence treatment of me treatment of cerpigmentation treatment of creatment of mangiomas, facigiomas and spillformations to removal of unuction	noderate inflammatory act benign pigmented epoly, melasma, and ephelide utaneous lesions including benign cutaneous vascial, truncal and leg telatider angiomas, poikilodermwanted hair and to express the second se	0-950 nm wavelengths are indicated for: one vulgaris pidermal lesions including dyschromia,
=	on Use <u>/</u> R 801 Subpart D	AND/OR	Over-The-Counter Use(21 CFR 801 Subpart C)
(PLEASE DO	NOT WRITE BE	ELOW THIS LINE-CONT	INUE ON ANOTHER PAGE IF NEEDED)
	(Divisi Division	of CDRH, Office of De MANY C. Provion Sign-Off) on of General, Recurological Device	estorative, estorative, Page 1 of 10
Premarket Notific Modified MSq Fa	cation, 51(1(k)) mily of Lovely I	b.Number K043 Light/Laser Systems	2000 Attachment 2 - Page 1

510(k) Numbe	er (if known): K04	2000	
Device Name:	Modified MSq Fami (Harmony), and Lov	ly of Lovely System ely III (TBD)	ı Models: Lovely I (Aria), Lovely II
Indications for	r Use: - Continued t	from previous page	- -
DERMATOLO	GY AND PLASTIC SURG	GERY - continued	
The UV L TI	(Harmony) & Lovely ight source (290-380nm he treatment of leukode he treatment of psoriasise on all skin types (Fit.	n) is indicated for: rma, including vitili s, atopic dermatitis	go (acquired leukoderma). (eczema), and seborrheic dermatitis.
clearance	of:		vitched) are indicated for treatment and
• Bo	enign vascular lesions s Port wine stains	uch as, but not limit	ted to treatment of:
>	Hemangiomas		
>	Warts		
>	Superficial and deep	telangiectasias (ven	ulectasias)
>	Reticular veins (0.1-4		
>	Rosacea		_
>	Venus lake		
>	Leg veins		
>	Spider veins Poikiloderma of Civa		,
\$ \$	Angiomas	itte :	
Prescript	ion Use 🗸		Over-The-Counter Use
-	FR 801 Subpart D)	AND/OR	(21 CFR 801 Subpart C)
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Page 2 of 10

510(k) Number (if known): K042000
Device Name: Modified MSq Family of Lovely System Models: Lovely I (Aria), Lovely II (Harmony), and Lovely III (TBD)
Indications for Use: - Continued from previous page -
DERMATOLOGY AND PLASTIC SURGERY - continued
Lovely II (Harmony) & Lovely III (TBD) Models: 1064 nm Nd: YAG lasers (Long Pulsed and Q-Switched) – continued: Benign cutaneous lesions, such as: Warts Scars Striae Psoriasis Benign pigmented lesions such as, but not limited to: Lentigos (age spots), Solar lentigos (sun spots) Café au lait macules Seborrheic keratoses Nevi and nevus of Ota Chloasma Verrucae Skin tags Keratoses The removal of black, blue or green tattoos (significant reduction in the intensity of black and/or blue/black tattoos) Plaques
Prescription Use // AND/OR Over-The-Counter Use (21 CFR 801 Subpart C)
(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)
Concurrence of CDRH, Office of Device Evaluation (ODE)

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510(k) Number (if known): K042000
Device Name: Modified MSq Family of Lovely System Models: Lovely I (Aria), Lovely II (Harmony), and Lovely III (TBD)
Indications for Use: - Continued from previous page -
DERMATOLOGY AND PLASTIC SURGERY - continued
Lovely II (Harmony) & Lovely III (TBD) Models: 1064 nm Nd:YAG lasers (Long Pulsed and Q-Switched) – continued: • Pigmented lesions to reduce lesion size, for patients with lesions that would potentially benefit from aggressive treatment, and for patients with lesions that have not responded to other laser treatments.
 The non-ablative treatment of facial wrinkles, such as, but not limited to: Periocular wrinkles Perioral wrinkles Laser skin resurfacing procedures for the treatment of: Acne scars Wrinkles
 Removal of unwanted hair, for stable long term, or permanent, hair reduction through selective targeting of melanin in hair follicles Removal or lightening of unwanted hair (with and without adjuvant preparation) Pseudofolliculitis barbae (PFB) Reduction of red pigmentation in hypertrophic and keloid scars where vascularity is an integral part of the scar Indicated for use on all skin types (Fitzpatrick I-IV), including tanned skin
Prescription Use AND/OR Over-The-Counter Use (21 CFR 801 Subpart C)
(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)
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510(k) Number (if known): K042000
Device Name: Modified MSq Family of Lovely System Models: Lovely I (Aria), Lovely II (Harmony), and Lovely III (TBD)
Indications for Use: - Continued from previous page -
DERMATOLOGY AND PLASTIC SURGERY - continued
Lovely II (Harmony) & Lovely III (TBD) Models: The 532 nm Frequency-Doubled (FD) Nd:YAG lasers (Long Pulsed and Q-Switched) are indicated for: Incision, excision, ablation, vaporization of soft tissue Tattoo removal Light blue Yellow Red Green Vascular lesions Hemanigomas (Port wine stains/ birthmarks, and cavernous, cherry, and spider hemangiomas) Angiomas (cherry, spider) Telangiectasia Spider nevi
Prescription Use AND/OR Over-The-Counter Use (21 CFR 801 Subpart C)
(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)
Concurrence of CDRH, Office of Device Evaluation (ODE)

Page 5 of 10

510(k) Number (if known): K042000
Device Name: Modified MSq Family of Lovely System Models: Lovely I (Aria), Lovely II (Harmony), and Lovely III (TBD)
Indications for Use: - Continued from previous page -
DERMATOLOGY AND PLASTIC SURGERY - continued
Lovely II (Harmony) & Lovely III (TBD) Models: 532 nm Frequency-Doubled (FD) Nd:YAG lasers (Long Pulsed & Q-Switched) – continued: • Benign pigmented lesions • Café-au-lait (macules) • Lentigines (senile and solar) • Freckles (ephelides) • Chloasma • Nevi • Nevus spillus • Nevus of Ota • Becker's nevi • Other pigmented cutaneous lesions • Verrucae • Skin tags • Keratoses • Plaques
Prescription Use AND/OR Over-The-Counter Use (Part 21 CFR 801 Subpart D)
Concurrence of CDRH, Office of Device Evaluation (ODE)
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510(k) Number (if known): K042000
Device Name: Modified MSq Family of Lovely System Models: Lovely I (Aria), Lovely II (Harmony), and Lovely III (TBD)
Indications for Use: - Continued from previous page -
DERMATOLOGY AND PLASTIC SURGERY - continued
Lovely II (Harmony) & Lovely III (TBD) Models: 1320 nm Nd:YAG laser is indicated for the treatment of: • Fine lines and wrinkles • Periorbital wrinkles • Perioral wrinkles
 Back acne Atrophic acne scars Mild to moderate inflammatory acne vulgaris
Prescription Use AND/OR Over-The-Counter Use (21 CFR 801 Subpart C)
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Concurrence of CDRH, Office of Device Evaluation (ODE)

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510(k) Number (it	f known):]	X042000	
		amily of Lovely Sy Lovely III (TBD)	stem Models: Lovely I (Aria), Lovely II
Indications for Us	e: - Contini	ued from previous p	age -
DERMATOLOGY	AND PLASTIC S	SURGERY - continue	d
2940 nm Er subcutaneous membrane, ly Skin r Treati Epide Telan Spide Actin Keloi Verru Skin t Anal Kerati Scar r Debui Debui	:YAG laser is tissue, striate mph vessels and resurfacing ment of wrinkled rmal nevi giectasia r veins ic chelitis ds cae cags tags	d and smooth tisd nodes, organs, and s	e in soft tissue (skin, cutaneous tissue, sue, muscle, cartilage meniscus, mucous
Prescription (Part 21 CFR	Use 801 Subpart D)	AND/OR	Over-The-Counter Use(21 CFR 801 Subpart C)
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	Concurrence of	f CDRH, Office of	Device Evaluation (ODE)

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510(k) Number (if known): K042000	
Device Name: Modified MSq Family of Lovely System Models: Lovely I (Aria), Lovely II (Harmony), and Lovely III (TBD)	
Indications for Use: - Continued from previous page -	
DERMATOLOGY AND PLASTIC SURGERY - continued	
Lovely II (Harmony) & Lovely III (TBD) Models: 2940 nm Er: YAG laser – continued:	
 GENERAL SURGERY: Surgical incision/excision, vaporization, ablation, and coagulation of soft tissue where skin incision, tissue dissection, excision of external tumors and lesions, complete or partial resection of internal organs, tumors and lesions, tissue ablation, and/or vessel coagulation may be indicated 	
 GENITOURINARY: Treatment of: Lesions of the external genitalia, anus, penis, scrotum, and urethra (includes condyloma acuminate, giant perineal condyloma, and verrucous carcinoma), vulval lesions, polyps, and familial polyps of the colon 	r
 GYNECOLOGY: Treatment of: Cervical intraepithelial neoplasia (CIN), herpes simplex, endometrial adhesions, cysts, and condyloma 	
Prescription Use AND/OR Over-The-Counter Use (21 CFR 801 Subpart C)	
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Concurrence of CDRH, Office of Device Evaluation (ODE)	

510(k) Number (if known): K042000
Device Name: Modified MSq Family of Lovely System Models: Lovely I (Aria), Lovely II (Harmony), and Lovely III (TBD)
Indications for Use: - Continued from previous page -
DERMATOLOGY AND PLASTIC SURGERY - continued
Lovely II (Harmony) & Lovely III (TBD) Models: 2940 nm Er:YAG laser – continued:
ORAL/MAXILLOFACIAL:
Treatment of: Benign oral tumors, oral and glossal lesions, and gingivectomy
OTORHINOLARYNGOLOGY/ HEAD AND NECK (ENT): Treatment of:
 Ear, nose and throat lesions, polyps, cysts, hyperkeratosis Excision of carcinogenic tissue and oral leukoplakia
OPHTHALMOLOGY: Treatment of: Soft tissue surrounding the eye and orbit
PODIATRY: Treatment of: Warts, plantar verrucae, large mosaic verrucae Matrixectomy
Prescription Use AND/OR Over-The-Counter Use (Part 21 CFR 801 Subpart D) (21 CFR 801 Subpart C)
(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)
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